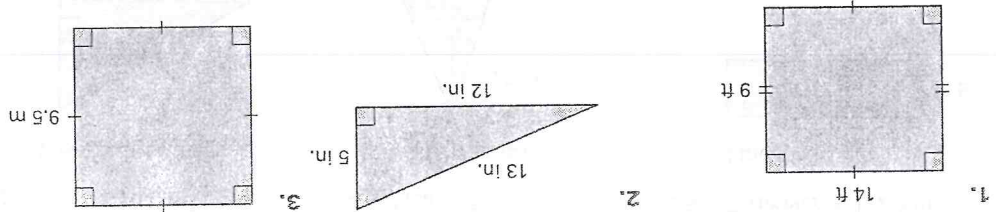


Name _____

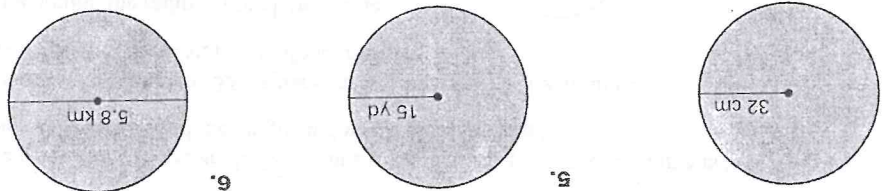
Date _____

LESSON 17
Practice B
For use with pages 48-56

Find the perimeter and area of the figure.

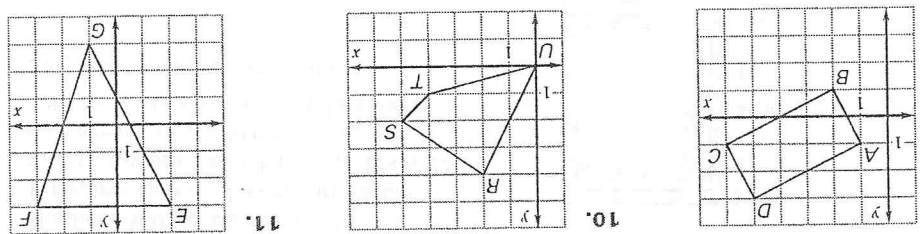


Find the circumference and area of the circle. Round to the nearest tenth.



- A triangle has a base of 6 miles and a height of 2 miles. Sketch the triangle and find its area.
- A circle has a radius of 25 inches. Sketch the circle and find its area. Round your answer to the nearest tenth.

Find the perimeter of the figure. Round to the nearest tenth of a unit.



- The area of a triangle is 48 square inches, and its height is 16 inches. Find the base of the triangle.
- The area of a rectangle is 365.2 square meters, and its length is 22 meters. Find the width of the rectangle.

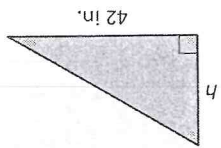
Copy and complete the statement.

- $72 \text{ cm}^2 = \frac{?}{?} \text{ m}^2$
- $22 \text{ m}^2 = \frac{?}{?} \text{ km}^2$
- $18 \text{ in}^2 = \frac{?}{?} \text{ ft}^2$
- $1.5 \text{ km}^2 = \frac{?}{?} \text{ m}^2$
- $100 \text{ mm}^2 = \frac{?}{?} \text{ cm}^2$
- $585 \text{ ft}^2 = \frac{?}{?} \text{ yd}^2$
- $14 \text{ yd}^2 = \frac{?}{?} \text{ ft}^2$
- $13 \text{ cm}^2 = \frac{?}{?} \text{ mm}^2$
- $12 \text{ ft}^2 = \frac{?}{?} \text{ in}^2$
- $10,000 \text{ cm}^2 = 1 \text{ m}^2$
- $1,000,000 \text{ m}^2 = 1 \text{ km}^2$
- $144 \text{ in}^2 = 1 \text{ ft}^2$

Name _____

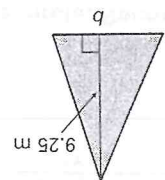
Date _____

Use the information about the figure to find the indicated measure.



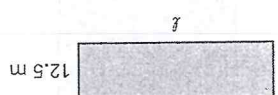
Find the height h .

23. Area = 504 in.^2



Find the base b .

24. Area = 55.5 m^2

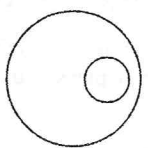


Find the length l .

25. Perimeter = 112.5 m

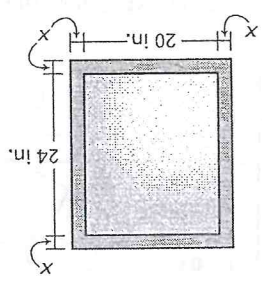
26. The perimeter of a rectangle is 28.8 centimeters. The length of the rectangle is twice as long as its width. Find the length and width of the rectangle.

27. The area of a triangle is 338 square yards. The height of the triangle is four times its base. Find the height and base of the triangle.



28. In the figure, the radius of the large circle is three times the radius of the small circle. About what percent of the large circle is covered by the small circle?

30. **Windows** You make a window out of a rectangular pane of glass by surrounding it with a wooden frame that is x inches wide. The pane of glass is 20 inches long and 24 inches wide. The perimeter of the window is $8\frac{3}{2}$ feet. What is the value of x ?



29. **Land** You are planting grass on a square plot of land. You are also building a fence around the edge of the plot. The side length of the plot is 54 yards. How much area do you need to cover with grass seed? How many feet of fencing do you need?

31. **Looms** A triangular loom used for knitting covers an area of 12.25 square feet. It has a base that is twice as long as its height.

- a. Sketch and label a diagram for the situation.
- b. Find the base and the height of the loom.
- c. Suppose the base of the loom was increased by 6 inches while the height remained the same. The area that the loom covers increased by how many square inches? square feet?